

TORR™ DE-OILING TECHNOLOGY



Together creating pure oil, gas and water.

The TORR™ de-oiling technology, with its small footprint and ability to replace less efficient de-oiling equipment, offers the best available process in the treatment of produced water for offshore producers and operators. The TORR™ technology exceeds today's discharge regulations and will address future regulations. The scalable technology addresses future increases in water cut. Adding compact TORR™ vessels requires very little real estate when water cuts increase.



FEATURES

- Small footprint and low weight
 - 1000 ppm down to discharge regulation
 - Better polishing for reinjection applications
 - Removes and recovers oil droplets larger than 2 microns
 - Maximum flow rate per vessel of 60,000 BWPF
 - Same high de-oiling efficiency during production start-up periods
 - No additional treatment required for recovered oil
- Minimal pressure drop and maintenance and minimal operation costs
 - Recovered hydrocarbons can be <0.5% BSW
 - High flow rate turndown
 - No moving internal parts
 - No added heat or chemicals
 - Operational temperatures up to 90°C
 - Solids handling capabilities
 - Reduced process complexity

TECHNOLOGY

The TORR™ process consists of two inline pressure vessels, and an optional third vessel can be used as a standby.

Produced water enters the TORR™ unit for treatment and then passes through the core of multiple continuous coalescing elements. The continuous coalescing element adsorbs the small oil droplets, coalesces them to large oil globules and then desorbs them.

Gravity separation principles remove these large coalesced globules, which then rise to the top of the vessel. Any solution gas accumulating with the oil at the top of the vessel will be safely recovered. The oil and/or gas collected at the top of the vessel are recuperated and returned to a suitable collection unit.

The TORR™ technology treated produced water exceeds discharge regulations.



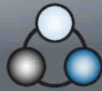
REFERENCES

Available upon request.

FOR MORE INFORMATION

Contact your nearest ProSep office
www.prosep.com

About ProSep



ProSep is a technology-based process solutions provider for the upstream oil and gas industry.

The Company designs, develops, manufactures and commercializes technologies to separate oil, gas and water generated by oil and gas production.

ProSep's innovative offerings have been awarded three Spotlight on New Technology Awards from the annual Offshore Technology Conference in Houston in 2005 and onwards, comprising the proprietary technologies ProScav, CTour and ProSalt.